

High-temperature Synthetic Chain Oil (T-CH5)



Product Description

Podlee high-temperature synthetic chain oil is a specialized lubricant designed to meet the demanding requirements of industrial chains operating in extreme heat, heavy loads, and high-speed environments. Unlike conventional mineral-based oils, synthetic formulations leverage advanced chemistry to deliver superior thermal stability, reduced maintenance, and extended equipment life. This lubricant is indispensable in industries where chains are exposed to temperatures exceeding 260 °C (500 F), such as ovens, kilns, steel plants, and food processing lines.

Application

Conveyor chains in high-temperature drying chambers of lamination board factories;
Overhead conveyor chains in paint baking workshops of automotive factories;
Drive chains in coating workshops of white goods (e.g., refrigerators, washing machines) manufacturing facilities;
Roller chains inside kilns of ceramic factories;
Other similar high-temperature industrial applications.

Advantages

Outstanding High-Temperature Stability: Extremely low tendency for carbon deposits and coking at elevated temperatures, minimal smoke emission, and no harmful gas generation.

Low Evaporation Loss: Free from components prone to thermal decomposition, reducing oil consumption.

Superior Detergency: Eliminates cleaning issues caused by solid residue buildup, reduces downtime, and helps clean chains contaminated by inferior lubricants.

Exceptional Lubrication Performance: Provides excellent lubrication and protection under high-temperature and heavy-load conditions.

Low Friction Coefficient: Significantly reduces energy consumption.

Specialized Additive Formulation: Combines advanced anti-oxidation, anti-wear, and high-temperature anti-corrosion properties, enhancing equipment protection, extending service life, and lowering maintenance costs.

Strong Adhesion: Minimizes oil leakage.

High Viscosity Index and Excellent Viscosity-Temperature Characteristics: Maintains effective lubricating film formation at high temperatures.

Eco-Friendly: Free of harmful heavy metals, safe for humans and environmentally friendly.

Typical Characteristics

Item	Test Data	Standard
Viscosity (mm ² /s@104 F/40 °C)	320	ASTM D445
Viscosity Index	143	ASTM D2270
Flash Point – Open Cup Method, (°F/°C)	563/295	ASTM D92
Pour Point (°F/°C)	-31/-35	ASTM D97
Copper Corrosion	1a	ASTM D130
Rust Preventing Characteristics (A)	Pass	ASTM D665
Diameters of the Scars (mm)	0.44	ASTM D4172

Package

18 L/Barrel

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